

EXHIBIT B-6

SCOPE OF FRED EX EARLY WORK

[SEE ATTACHED]

Early Works Scope of Work

1.0 Early Works Narrative

Early Works is critical to delivery certainty. During the Early Works period, Branch-Flatiron, JV will do the following:

- Perform tasks needed for contract execution
- Obtain approval for the Project Development Plans (PDP)
- Perform scope validation activities including geotechnical and survey work
- Prepare permits for land disturbance and for stream and wetland impacts
- Initiate Indiana Bat Habitat Survey
- Submit Stage 1 plans for all structures
- Submit plans for maintenance of traffic (MOT), clearing, grubbing, erosion and sediment control, grading and drainage

This effort will begin with receipt of the Notice of Intent to Award (NOIA) to obtain approval to begin construction in upland areas in June 2019.

1.1 At-Risk Period (11/06/2018 to 01/15/2019)

Branch-Flatiron will begin work at-risk upon receipt of the NOIA on November 6, 2018. Branch-Flatiron, JV will begin by providing documents as stipulated in Part 1, Attachment N, required for the formal award and do the following:

- Finalize Exhibit 5.1.1 Early Works Scope of Work
- Acquire performance and payment bonds for the Early Works
- Enroll in the Owner Controlled Insurance Plan (OCIP)
- Obtain insurance
- Provide names and qualifications for the public information and schedule managers
- Develop the cost-loaded initial Baseline Schedule in coordination with the TTMS contractor.
- Prepare the Submittal Register and PDPs required for Design Notice to Proceed (DNTP), including the Design-Build (DB) Management Plan, Document Management Plan, Quality Management Plan, Design Quality Management Plan, Communications Plan and the DBE/SWaM Plan

To be ready to submit when the Early Works period begins, Branch-Flatiron, JV will start working on environmental permits and developing the geotechnical exploration plan. Branch-Flatiron, JV will also continue assembling the project team and will co-locate each member in HNTB's Arlington, Virginia office. To begin working immediately upon receipt of the NOIA,

Branch-Flatiron is already familiarizing the team members with work that needs to occur, assigning engineers to disciplines and reviewing specific responsibilities for each during the at-risk period.

1.2 Early Works Period (01/15/2019 to 04/30/2019)

The Early Works period includes the following:

- Limited Notice to Proceed (LNTP) | Early Works will begin with LNTP, which allows Branch-Flatiron, JV to submit plans for review and approval, and to begin field investigations.
- Pre-Design Kick-Off | Meet with the Concessionaire, VDOT and Branch-Flatiron to discuss project administration and the submittal and review process.
- Construction PDPs | Prepare and submit for approval plans for Construction Quality Management, Environmental Management, Right-of-Way (ROW) Acquisition and Relocation, Utilities, MOT, Health, Safety and Security and Sustainability.
- Ethics Plan | Prepare and submit Ethics Plan.
- Scope Validation | Perform scope validation activities, including surveys to confirm existing drainage, storm sewer network, ROW limits and existing utilities. Structures and roadway borings will be performed, and boring reports will be developed for use by the design team.
- Environmental Permitting | Meet with the US Army Corps of Engineers and the Virginia Department of Environmental Quality to familiarize with the project, delineate the streams and wetlands, initiate Indian Bat habitat survey, and to review the Joint Permit Application for the 401 and 404 permits. Branch-Flatiron, JV will also prepare, submit and review the Virginia Stormwater Management Program and Stormwater Pollution Prevention Plans with the agencies.
- Construction Plans | Prepare and submit Stage 1 plans for all structures. To begin construction in the upland areas early, Branch-Flatiron, JV will submit plans for MOT, clearing, grubbing, erosion and sediment control, grading and drainage.
- Off-Site Inspections | Determine required off-site inspections per contract requirements.
- Tolling and Traffic Management System (TTMS) | Begin the TTMS team meetings to facilitate the review of the initial ITS/TTMS plans.
- Traffic Management Task Force (TMTF) | Begin the TMTF meetings and review the early MOT plan.
- Safety | Initiate the Safety Leadership team meetings.
- Utility Relocations and ROW Acquisitions | Meet with the utility companies to initiate utility relocations. Branch-Flatiron, JV will also start the ROW acquisition process and develop ROW plans.
- Stakeholder Coordination | Begin coordination with adjacent projects and stakeholders.

- Schedule | Develop the cost-loaded baseline schedule and submit for approval. Branch-Flatiron, JV will also meet with the TTMS contractor to review the schedule.
- Bonds | Provide Performance and Payment Bonds for 100% of the DB Contract Price.
- Field Office | Establish a field office within the project limits for co-location of the Branch-Flatiron, JV team and the Concessionaire.
- Work Within the I-95 Median (STA 89+00 to 840+00) | Perform field survey, stream and wetlands delineation, bat survey, storm sewer inspection and borings.
- Work Along the I-95 ROW (STA 89+00 to 840+00 NB & SB) | Perform field survey, stream and wetlands delineation, bat survey, storm sewer inspection, and borings

Transurban's and VDOT's review of the following items is critical to the successful execution of the Early Works Package: Submittal Register, PDPs and Geotechnical Exploration Plan, as well as the early design plan submittals.

Activity ID	Activity Name	OD (Days)	Start	Finish	Budgeted Revenue
EARLY WORKS		185	15-Jan-19	30-Sep-19	\$10,000,000.00
WBS: P54400-IBS.2 General Conditions & Project Management		75	15-Jan-19	29-Apr-19	\$2,120,000.00
G1170	Project Management for Early Works	75	15-Jan-19	29-Apr-19	\$1,492,000.00
G1005	Performance & Payment Bond for LNTP (Billing Purposes)	1	15-Jan-19	15-Jan-19	\$50,000.00
G1092	Certificates of Insurance LNTP (Billing Purpose)	1	15-Jan-19	15-Jan-19	\$528,000.00
G1015	Submit - Submittal Register	1	16-Jan-19	16-Jan-19	\$42,500.00
G1195	Submittal Register Approved	1	14-Feb-19	14-Feb-19	\$7,500.00
WBS: P54400-IBS.2.1 Scope Validation		75	15-Jan-19	29-Apr-19	\$150,000.00
G1160	Scope Validation Effort / Prepare Supporting Documentation	74	15-Jan-19	26-Apr-19	\$40,000.00
G1162	Storm Sewer CCTV Inspection	15	15-Feb-19	07-Mar-19	\$100,000.00
G1165	Submit Scope Issues Supporting Documentation (If Scope Issues Discovered)	1	29-Apr-19	29-Apr-19	\$10,000.00
WBS: P54400-IBS.2.2 Project Schedules		43	15-Jan-19	14-Mar-19	\$100,000.00
G1100	Prepare & Submit Cost Loaded Baseline Schedule	30	15-Jan-19	13-Feb-19	\$85,000.00
G1275	Cost Loaded Baseline Schedule Approved	1	14-Mar-19	14-Mar-19	\$15,000.00
WBS: P54400-IBS.2.3 Project Development Plans for Design Work NTP		22	16-Jan-19	14-Feb-19	\$110,000.00
G1025	Submit - Design Builder Management Plan	1	16-Jan-19	16-Jan-19	\$12,750.00
G1035	Submit - Document Management Plan	1	16-Jan-19	16-Jan-19	\$8,500.00
G1045	Submit - Quality Management System Plan (QMSP)	1	16-Jan-19	16-Jan-19	\$21,250.00
G1055	Submit - Design Quality Management Plan (DQMP)	1	16-Jan-19	16-Jan-19	\$12,750.00
G1065	Submit - Public Information and Communication Plan	1	16-Jan-19	16-Jan-19	\$17,000.00
G1075	Submit - DBE/SWaM and Workforce Plan	1	16-Jan-19	16-Jan-19	\$8,500.00
G1085	Submit - Right of Way Acquisition and Relocation Plan	1	16-Jan-19	16-Jan-19	\$12,750.00
G1205	Design Builder Management Plan Approved	1	14-Feb-19	14-Feb-19	\$2,250.00
G1235	Document Management Plan Approved	1	14-Feb-19	14-Feb-19	\$1,500.00
G1255	Quality Management System Plan (QMSP) Approved	1	14-Feb-19	14-Feb-19	\$3,750.00
G1225	Design Quality Management Plan (DQMP) Approved	1	14-Feb-19	14-Feb-19	\$2,250.00
G1245	Public Information and Communication Approved	1	14-Feb-19	14-Feb-19	\$3,000.00
G1215	DBE/SWaM and Workforce Plan Approved	1	14-Feb-19	14-Feb-19	\$1,500.00
G1265	Right of Way Acquisition and Relocation Plan Approved	1	14-Feb-19	14-Feb-19	\$2,250.00
WBS: P54400-IBS.2.4 Project Development Plans Construction NTP		74	15-Jan-19	28-Apr-19	\$101,500.00
G1110	Develop & Submit - Construction Quality Management Plan	53	15-Jan-19	28-Mar-19	\$12,750.00
G1140	Develop & Submit - Sustainability Plan	53	15-Jan-19	28-Mar-19	\$12,750.00
G1150	Develop & Submit - Utilities Plan	53	15-Jan-19	28-Mar-19	\$12,750.00
G1153	Develop & Submit - Environmental Management Plan	53	15-Jan-19	28-Mar-19	\$12,750.00
G1157	Develop & Submit - Ethics Plan	0	15-Jan-19	15-Jan-19	\$0.00
G1135	Submit - Health, Safety, and Security Plan	1	16-Jan-19	16-Jan-19	\$17,000.00
G1125	Submit - Maintenance of Traffic Plan	1	16-Jan-19	16-Jan-19	\$17,000.00
G1375	Ethics Plan Approved	1	12-Feb-19	12-Feb-19	\$1,500.00
G1295	Health, Safety, and Security Plan Approved	1	14-Feb-19	14-Feb-19	\$3,000.00
G1305	Maintenance of Traffic Plan Approved	1	14-Feb-19	14-Feb-19	\$3,000.00
G1285	Construction Quality Management Plan Approved	1	26-Apr-19	26-Apr-19	\$2,250.00
G1315	Sustainability Plan Approved	1	26-Apr-19	26-Apr-19	\$2,250.00
G1325	Utilities Plan Approved	1	26-Apr-19	26-Apr-19	\$2,250.00
G1365	Environmental Management Plan Approved	1	26-Apr-19	26-Apr-19	\$2,250.00
WBS: P54400-IBS.3.2 Survey		63	15-Jan-19	11-Apr-19	\$300,000.00
D10060	Prepare and Submit Draft Property Owner Letter & Address Listing	5	15-Jan-19	21-Jan-19	\$10,000.00
D10170	Mail Property Owner Notification Letter Providing 15 Day Notice	15	29-Jan-19	12-Feb-19	\$5,000.00
D10210	Supplemental Field Survey Phase 1	20	15-Feb-19	14-Mar-19	\$155,000.00
D10630	Supplemental Field Survey Phase 2	20	15-Mar-19	11-Apr-19	\$130,000.00
WBS: P54400-IBS.3.3 Existing Culvert Inspection		40	15-Feb-19	11-Apr-19	\$95,000.00
D10350	Perform Necessary Additional Existing Culvert Inspection	20	15-Feb-19	14-Mar-19	\$75,000.00
D10650	Review Inspection Report, Make Recommendations	20	15-Mar-19	11-Apr-19	\$20,000.00
WBS: P54400-IBS.3.4 Geotechnical Study, Analysis and Reports		22	16-Jan-19	14-Feb-19	\$50,000.00
D10005	Submit Geotechnical Exploration Plan (GEP)	1	16-Jan-19	16-Jan-19	\$42,500.00
D10095	Geotechnical Exploration Plan (GEP) Approved	1	14-Feb-19	14-Feb-19	\$7,500.00
WBS: P54400-IBS.3.4.1.1 Part 1A - Truslow Bridge		35	15-Feb-19	04-Apr-19	\$181,800.00
D10330	Geotech Truslow - Stakeout Borings and Field Review	3	15-Feb-19	19-Feb-19	\$11,800.00
D10370	Geotech Truslow - Perform Soil Borings	10	20-Feb-19	07-Mar-19	\$43,000.00
D10570	Geotech Truslow - Lab Work and Field Data Collection	5	08-Mar-19	14-Mar-19	\$47,000.00
D10640	Geotech Truslow - Prepare Geotechnical Report and Recommendations	10	15-Mar-19	28-Mar-19	\$50,000.00
D10720	Geotech Truslow - QA/QC and Submit Geotech Report	5	29-Mar-19	04-Apr-19	\$10,000.00

Activity ID	Activity Name	OD (Days)	Start	Finish	Budgeted Revenue
WBS: P54400-IBS.3.4.1.2 Part 1B - Remaining Structures					
D10240	Geotech Struct. - Stakeout Borings and Field Review	10	15-Feb-19	28-Feb-19	\$71,000.00
D10360	Geotech Struct. - Perform Soil Borings	30	20-Feb-19	15-Apr-19	\$254,000.00
WBS: P54400-IBS.3.4.2 Part 2 - Roadway					
D10270	Geotech Roadway - Stakeout Borings and Field Review	10	15-Feb-19	28-Feb-19	\$118,000.00
D10540	Geotech Roadway - Perform Soil Borings	40	11-Mar-19	20-May-19	\$626,000.00
WBS: P54400-IBS.3.4.4 Part-3 - Soundwall					
D10290	Geotech Soundwall - Stakeout Borings and Field Review	10	15-Feb-19	28-Feb-19	\$35,500.00
D10470	Geotech Soundwall - Perform Soil Borings	45	04-Mar-19	21-May-19	\$110,000.00
WBS: P54400-IBS.3.5 Noise Analysis					
D10020	Noise Analysis and Report Preparation	60	15-Jan-19	08-Apr-19	\$181,000.00
D10860	QA/QC Noise Report	15	09-Apr-19	29-Apr-19	\$16,000.00
WBS: P54400-IBS.3.6.1 Early Work Activities					
D10030	Prepare for JPA Pre-Application Meeting	4	15-Jan-19	18-Jan-19	\$10,000.00
D12980	IB Field Habitat (CRI)	10	15-Jan-19	28-Jan-19	\$60,452.00
D10120	Joint Permit Application Up Front Materials	4	22-Jan-19	25-Jan-19	\$116,000.00
D10150	Identify Adjoining Property Owners	4	28-Jan-19	31-Jan-19	\$10,000.00
D12990	Indiana Bat Habitat Report	10	29-Jan-19	11-Feb-19	\$54,000.00
D13000	QA/QC Review of Indiana Bat Habitat Report	5	12-Feb-19	18-Feb-19	\$10,000.00
D13010	Prepare & Submit Indiana Bat Report to 95 Express for Approval	2	19-Feb-19	20-Feb-19	\$5,000.00
D13030	Indiana Bat Report/Conclusions Changes per 95 Express Comments	5	21-Mar-19	27-Mar-19	\$10,000.00
WBS: P54400-IBS.3.6.2 Wetland, Water Quality Permit					
D10040	WOUS Field Confirmation (Wetland, Stream Delineation)	20	15-Jan-19	11-Feb-19	\$55,000.00
D10190	Field Survey (assumes no T&E survey)	20	05-Feb-19	04-Mar-19	\$131,200.00
D10530	Preliminary JD Report	10	05-Mar-19	18-Mar-19	\$100,000.00
D10680	QA/QC Review of PJD Report	5	19-Mar-19	25-Mar-19	\$10,000.00
D10710	Modifications/Submit of PJD Report to Agencies	5	26-Mar-19	01-Apr-19	\$25,000.00
D10770	USACE/DEQ Field Review	31	02-Apr-19	02-May-19	\$2,000.00
WBS: P54400-IBS.3.6.3 VSMP Permit					
D10610	Prepare SWPPP including SWM and ESC Plan (Clearing & Grubbing)	20	15-Mar-19	11-Apr-19	\$114,000.00
D10870	JV Review of SWPPP Package	5	12-Apr-19	18-Apr-19	\$10,000.00
WBS: P54400-IBS.3.6.4 Hazardous Materials					
D10050	Hazardous Materials Clearance	20	15-Jan-19	11-Feb-19	\$22,000.00
WBS: P54400-IBS.3.7.1 Advanced Work Package (MOT, Clearing, and E&S)					
D10230	Advanced MOT/Clearing/E&S Plans & VPDES	15	15-Feb-19	07-Mar-19	\$841,200.00
D10550	Design QA/QC Review of AWP	5	08-Mar-19	14-Mar-19	\$10,000.00
D10620	Prepare AWP for Submission	2	15-Mar-19	18-Mar-19	\$5,000.00
D10960	Comment Resolution/Revise AWP	5	16-Apr-19	22-Apr-19	\$10,000.00
D11000	Resubmit AWP for Approval	5	23-Apr-19	29-Apr-19	\$5,000.00
D11040	AWP Released	5	30-Apr-19	06-May-19	\$96,800.00
WBS: P54400-IBS.3.7.2 ROW, Grading & Deep Drainage Work Package					
D10590	Preliminary RW Acquisition Effort (Title research, appraisals)	45	15-Mar-19	28-Apr-19	\$75,000.00
D10600	ROW, Grading & Deep Drainage Work Package Design	25	15-Mar-19	18-Apr-19	\$1,040,548.00
D10780	Prepare ROW Plan Sheets	10	05-Apr-19	18-Apr-19	\$75,000.00
D10980	Design QA/QC Review of Roadway & Drainage Plans	5	19-Apr-19	25-Apr-19	\$10,000.00
D11020	Prepare ROW, Grading & Deep Drainage Work Package for Submission	2	26-Apr-19	29-Apr-19	\$5,000.00
WBS: P54400-IBS.3.8 Right of Way Acquisition					
D10070	Prepare and Submit RW Acquisition Plan	5	15-Jan-19	21-Jan-19	\$10,000.00
WBS: P54400-IBS.3.9 Utility Relocation/Coordination					
D10010	Obtain Letter authorizing DB to coordinate utility relocations	5	15-Jan-19	21-Jan-19	\$10,000.00
D10380	Preliminary Utility Status Report	10	19-Feb-19	04-Mar-19	\$10,000.00
D10520	Preliminary Plans to Utilities (30% Plans for UFI)	7	05-Mar-19	13-Mar-19	\$163,000.00
D10660	Utility Field Inspection/Survey	30	14-Mar-19	24-Apr-19	\$737,000.00
D10820	Prepare UT9 Forms	5	25-Apr-19	01-May-19	\$25,000.00
WBS: P54400-IBS.3.9.2.1 In Plan by HNTB (Stafford County Watermain, Sewer)					
D10810	Water/Sewer 90% Design + E&S Plan	10	25-Apr-19	08-May-19	\$160,000.00
WBS: P54400-IBS.3.10.1 Truslow Road Bridge Design					
D10080	Truslow - Bridge Stage I Design (T S & L)	10	15-Jan-19	28-Jan-19	\$32,000.00
D10260	Truslow - Design QA/QC Stage I	5	15-Feb-19	21-Feb-19	\$10,000.00
D10410	Truslow - Prepare Stage I for Submission	2	22-Feb-19	25-Feb-19	\$10,000.00
D10700	Truslow - Revise and address Comments Stage I	5	26-Mar-19	01-Apr-19	\$10,000.00

Activity ID	Activity Name	OD (Days)	Start	Finish	Budgeted Revenue
D10750	Truslow - Stage II Design (Superstructure)	40	02-Apr-19	28-May-19	\$44,000.00
D10970	Truslow - Stage II Design (Substructure)	40	18-Apr-19	13-Jun-19	\$40,000.00
WBS: P54400-IBS.3.10.2 American Legion Road Bridge Design		37	15-Feb-19	08-Apr-19	\$58,000.00
D10310	Am. Legion - Bridge Stage I Design (T S & L)	5	15-Feb-19	21-Feb-19	\$28,000.00
D10420	Am. Legion - Design QA/QC Stage I	5	22-Feb-19	28-Feb-19	\$10,000.00
D10480	Am. Legion - Prepare Stage I for Submission	2	01-Mar-19	04-Mar-19	\$10,000.00
D10760	Am. Legion - Revise and address Comments Stage I	5	02-Apr-19	08-Apr-19	\$10,000.00
WBS: P54400-IBS.3.10.3 Potomac Creek Bridge Design		45	29-Jan-19	01-Apr-19	\$212,000.00
D10160	Potomac Creek Br. - Bridge Stage I Design (T S & L)	5	29-Jan-19	04-Feb-19	\$22,000.00
D10220	Potomac Creek Br. - Design QA/QC Stage I	5	15-Feb-19	21-Feb-19	\$10,000.00
D10400	Potomac Creek Br. - Prepare Stage I for Submission	2	22-Feb-19	25-Feb-19	\$10,000.00
D10440	Potomac Creek Br. - Bridge H&HA & Scour Analysis	15	26-Feb-19	18-Mar-19	\$160,000.00
D10690	Potomac Creek Br. - Revise and address Comments Stage I	5	26-Mar-19	01-Apr-19	\$10,000.00
WBS: P54400-IBS.3.10.4 WHS & HWN (Southern Flyovers) Bridge Design		42	15-Feb-19	15-Apr-19	\$222,000.00
D10320	Ramp WHS & HWN - Bridge Stage I Design (T S & L)	10	15-Feb-19	28-Feb-19	\$152,000.00
D10490	Ramp WHS & HWN - Design QA/QC Stage I	5	01-Mar-19	07-Mar-19	\$10,000.00
D10560	Ramp WHS & HWN - Prepare Stage I for Submission	2	08-Mar-19	11-Mar-19	\$10,000.00
D10850	Ramp WHS & HWN - Revise and address Comments Stage I	5	09-Apr-19	15-Apr-19	\$50,000.00
WBS: P54400-IBS.3.10.5 HRS & RHN (Northern Flyovers) Bridge Design		170	05-Feb-19	30-Sep-19	\$234,000.00
D10200	Ramp HRS & RHN - Bridge Stage I Design (T S & L)	10	05-Feb-19	18-Feb-19	\$95,000.00
D10390	Ramp HRS & RHN - Design QA/QC Stage I	5	19-Feb-19	25-Feb-19	\$10,000.00
D10460	Ramp HRS & RHN - Prepare Stage I for Submission	2	26-Feb-19	27-Feb-19	\$10,000.00
D10730	Ramp HRS & RHN - Revise and address Comments Stage I	5	28-Mar-19	03-Apr-19	\$10,000.00
D10830	Ramp HRS & RHN - Stage II Design (Superstructure)	125	04-Apr-19	30-Sep-19	\$109,000.00
WBS: P54400-IBS.3.11.1 Advanced Work Package - TTMS/Lighting/Signage		82	15-Jan-19	08-May-19	\$495,000.00
D13500	Advanced Work TTMS/Lighting/Signage Plans	45	15-Jan-19	18-Mar-19	\$450,000.00
D13510	QA/QC Review Advanced Work TTMS/Lighting/Signage Plans	5	19-Mar-19	25-Mar-19	\$10,000.00
D13520	Prepare & Submit Advanced Work TTMS/Lighting/Signage Plans for Review	2	26-Mar-19	27-Mar-19	\$5,000.00
D13540	Adress Comments & Submit Advanced Work TTMS/Lighting/Signage Plans for Approval	10	25-Apr-19	08-May-19	\$30,000.00

95 Express Lanes Fredericksburg Extension Project
EARLY WORKS MONTHLY PAYMENT SCHEDULE

Period Ending (Month)	Projected Monthly Total:	Projected Cumulative Total:
January 2019	\$1,624,935.13	\$1,624,935.13
February 2019	\$2,415,086.09	\$4,040,021.22
March 2019	\$2,979,751.09	\$7,019,772.31
April 2019	\$2,437,843.33	\$9,457,615.63
		\$9,457,615.63